

1.2 Review

Grade: 9th
Subject: Earth Science
Date: 8/28

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Bellringer:

What do you think the
goals are of the following

Human endeavors:

Art, Architecture, Philosophy,
Sports, Politics

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- 1 _____ is the process of using your senses to gather information from the world.

Observation

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- 2 A _____ is a testable explanation.

hypothesis

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3 The dependent variable is the variable that is manipulated during an experiment.

True
False

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4 SI units are used so that scientists have a common system of measurement throughout the world.

True
False

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5 Precision is the exactness of a measurement.

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6 Accuracy refers to how close a measurement is to the true value of the thing being measured.

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- 7 A model is a description, representation, or imitation of an object, system, process, or concept.

True
False

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- 8 Find the percent error: If the accepted value for the weight of a gallon of water is 3.78 kg and the measured value is 3.72 kg, what is the percentage error for the measurement (answer is a %).

$$\frac{|AV - EV|}{|AV|} = \frac{3.78 \text{ kg} - 3.72 \text{ kg}}{3.78 \text{ kg}} = 0.0159 \times 100 = 1.59\%$$

1.59% error

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9 Peer review is the process in which several experts review a fellow expert's research before it is published.

True

False

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10 A theory is an explanation that is supported by many experiments.

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11 A scientific law is a general statement regarding a rule of nature in which no exceptions have been found.

True

False

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